

U.S. Serial No.: 10/629,978
Filed: July 30, 2003
Group Art Unit: 3739
Examiner: Peter J. Vrettakos
Atty. Docket No.: 22956-324

PENDING CLAIMS

1-27. (Cancelled).

28-37. (Cancelled).

38. (Previously Presented) A device for anchoring a filament to tissue or bone, comprising:
an anchoring element adapted to be embedded in bone and having a cavity formed therein;
and

an insertion stem adapted to be disposed in the cavity to retain a filament between the
insertion stem and the anchoring element, the insertion stem including at least one radial channel
formed around a head thereof and at least one suture-receiving channel formed on a surface thereof
and adapted to slidably receive a filament, the suture-receiving channel having a size adapted such
that the filament is retained by compression fit between the insertion stem and the anchoring element
when the insertion stem is disposed within the cavity in the anchoring element.

39. (Previously Presented) The device of claim 38, wherein the cavity comprises a lumen
extending between proximal and distal ends of the anchoring element.

40. (Previously Presented) The device of claim 39, where the insertion stem includes at least one
suture-receiving channel that extends between proximal and distal ends thereof.

41. (Cancelled).

42. (Previously Presented) The device of claim 39, further comprising at least one filament
disposed within the at least one suture-receiving channel.

43. (Previously Presented) The device of claim 42, wherein the filament is non-movable when
the insertion stem is disposed in the cavity in the anchoring element.

44. (Previously Presented) The device of claim 38, wherein the anchoring element is adapted to
be embedded in a tunnel in bone.

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45. (Previously Presented) The device of claim 38, wherein the insertion stem has an outer diameter that is equal to or greater than an inner diameter of the cavity in the anchoring element.
46. (Previously Presented) The device of claim 38, wherein the device is formed from a biocompatible material selected from the group consisting of polyethylene, polypropylene, steel, poly-L-lactide and lactide-glycolide compositions.
47. (Previously Presented) A device for anchoring a filament to tissue or bone, comprising:
an anchor member adapted to be embedded in bone, the anchor having at least one cavity therein and including first and second components adapted to hold a filament therebetween by interference fit such that, where the filament has a breaking strength greater than a threshold force, the filament is substantially non-movable in response to a tensional force less than a threshold force applied to any of the at least one portion, and the filament is longitudinally movable in response to a tensional force greater than the threshold force applied to any of the at least one portion.
48. (Cancelled).
49. (Previously Presented) A device for anchoring a filament to tissue or bone, comprising:
an anchor member adapted to be embedded in bone, the anchor having at least one cavity therein and first and second components that are adapted to hold a filament within the at least one cavity by an interference fit between the first and second components such that the filament is effective to resist operational forces to which the filament is subjected to subsequent to deployment of the device into bone.
50. (Previously Presented) The device of claim 49, wherein the anchor member includes a frangible portion that is adapted to shear during deployment of the device into bone.
51. (Previously Presented) The device of claim 49, wherein the at least one cavity includes opposite open ends.

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52. (Previously Presented) A device for anchoring a filament to tissue or bone, comprising:
a first component adapted to be embedded in bone and having at least one cavity therein;
a second component receivable within the first component such that the first and second components are effective to retain a filament therebetween by interference fit.

53. (Previously Presented) The device of claim 52, wherein the first and second components are adapted to hold the filament such that, where the filament has a breaking strength greater than the threshold force, the filament is substantially non-movable in response to a tensional force less than a threshold force applied to at least one portion of the filament, and the filament is longitudinally movable in response to a tensional force greater than the threshold force applied to the at least one portion of the filament.

54. (Previously Presented) The device of claim 52, wherein the first and second components are adapted to hold the filament such that the filament is effective to resist operational forces to which the filament is subjected to subsequent to deployment of the device in a patient's body.

55. (Previously Presented) The device of claim 52, wherein the first anchor member includes a frangible portion that is adapted to shear during deployment of the device into bone.

56. (Previously Presented) The device of claim 52, wherein the at least one cavity component includes opposite open ends.

57. (Previously Presented) A device for anchoring a filament to tissue or bone, comprising:
an anchor member adapted to be embedded in bone and having a cavity formed therein and
an insertion element adapted to be disposed in the cavity in the anchor member, the anchor member and the insertion element being adapted to hold a filament within the cavity by interference fit.

58-67. (Cancelled).

68. (Previously Presented) A suture anchor, comprising:

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an elongate shaft having an insertion element frangibly attached to a distal end thereof; and
an anchoring element adapted to be disposed within bone and to receive the insertion element
such that the insertion element and the anchoring element are adapted to retain a suture therebetween
by an interference fit.

69. (Previously Presented) The device of claim 68, wherein the insertion element includes a
flange formed on a terminal end thereof and adapted to abut a terminal end of the anchoring element.

70. (Previously Presented) The device of claim 68, wherein the anchoring element includes a
cavity formed therein for receiving the insertion element.

71. (Previously Presented) The device of claim 70, further comprising a filament extending
through the cavity in the anchoring element between the anchoring element and insertion element.

72. (Previously Presented) A suture anchor, comprising:
an elongate anchor member adapted to be embedded in bone and having a cavity extending
therethrough with opposite open ends;
an elongate insertion element adapted to be disposed in the cavity in the anchor member; and
a suture extending through the cavity in the anchor member between the opposite open ends,
at least a portion of the suture being positioned between the anchor member and the insertion element
such that the suture is held therebetween by a compression fit.

73. (Previously Presented) A suture anchor, comprising:
an insertion element having an elongate shaft frangibly attached to a distal end thereof; and
an anchoring element adapted to be disposed within bone and having a cavity extending
therethrough between opposite open ends thereof for receiving the insertion element such that the
insertion element and the anchoring element are adapted to retain a suture therebetween.

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